

# MATERIAL SAFETY DATA SHEET

Rustic Red Classic Etch™ Decorative Concrete Acid Stain

FILE NO.: KS-1006  
MSDS DATE: 1/ 1 /2008

## SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Classic Etch™ Decorative Concrete Acid Stain

COLOR NAME: Rustic Red  
SYNONYMS: None  
PRODUCT CLASS: Hydrochloric Acid

MANUFACTURER: Kemistain  
ADDRESS: P.O Box 780 Gainesville, TX 76241

EMERGENCY PHONE: 888-793-2628  
CHEMTREC PHONE: 800-424-9300  
OTHER CALLS: 888-793-2628

FAX PHONE: 866-332-5422

CHEMICAL NAME: Mixture  
CHEMICAL FAMILY: Inorganic Salt Solution  
CHEMICAL FORMULA: Mixture

PRODUCT USE: Concrete and masonry stain  
PREPARED BY: Rusty Strait

Health	3
Flammability	0
Reactivity	1
Protection	H

**Hazard Ratings**  
0= Minimal 1= Slight 2 = Moderate  
3 = Serious 4 = Severe

**Protection Rating**  
H = Splash Goggles, Gloves, Apron and Vapor

## SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

<u>INGREDIENT:</u>	<u>CAS NO.</u>	<u>% WT</u>	<u>ACDIH-TLV</u>	<u>OSHA-PEL</u>
Ferrous Chloride	7758-94-3	Minor	1mg/m <sup>3</sup>	1mg/m <sup>3</sup>
Hydrochloric Acid	7647-01-0	Minor	7mg/m <sup>3</sup>	7mg/m <sup>3</sup>
Water	7732-18-5	Major	N/A	N/A

Major=Over 25% Minor=6-25% Trace = Under 6 % Residue = Unknown % residue possible

## SECTION 3: HAZARDS IDENTIFICATION

**EMERGENCY OVERVIEW:** Danger Corrosive! Causes eye and skin burns. Harmful or fatal if swallowed. Highly reactive with alkaline materials.

**ROUTES OF ENTRY:** Inhalation, ingestion and skin contact.

### SIGNS AND SYMPTOMS OF EXPOSURE:

- EYES:** Irritation and severe damage to eyes. May cause blindness. Symptoms of exposure are burning or stinging.
- SKIN:** Exposure causes irreversible skin damage; symptoms may include redness, swelling, burns and/or skin damage.
- INGESTION:** Exposure may be harmful or fatal symptoms may include severe stomach and intestinal irritation, vomiting, nausea, diarrhea, abdominal pain and vomiting of blood. Ingesting this material may cause burns and destroy tissue in the mouth, throat and digestive tract. The injury of this tissue could result in low blood pressure and shock.
- INHALATION:** Irritation of the upper respiratory tract, coughing, sore throat, and shortness of breath.

### ACUTE HEALTH HAZARDS:

- EYES:** Contact of the eyes with Hydrochloric Acid either as a gas or liquid rapidly causes severe irritation and burns of the eyes and eyelids. If the acid is not removed quickly by through irrigation with water, there may be permanent visual impairment or total loss of sight.
- SKIN:** Exposure to the concentrated vapor of anhydrous Hydrogen Chloride may result in burns or dermatitis.
- INGESTION:** When Concentrated Hydrochloric Acid is swallowed it will cause severe burns of the mucous membranes of the mouth, esophagus and stomach. The lips and mouth usually turn white and later brown. There is pain in the

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## SECTION 3: HAZARDS IDENTIFICATION (continued)

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Throat and stomach, individual will have difficulty in swallowing, an intense thirst, nausea, and vomiting, followed by diarrhea and in severe cases by collapse and unconsciousness.

**INHALATION:** Inhalation of excessive concentrations of Hydrogen chloride vapors immediately produces severe irritation of the upper respiratory tract, resulting in coughing, burning of the throat, and choking sensation. Reactions encountered in man have usually been limited to inflammation and occasionally ulceration of the nose throat and larynx. If inhaled deeply edema of the lungs may occur.

**CHRONIC HEALTH HAZARDS:** Dermatitis may be caused by prolonged or repeated skin exposure.

**MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE:** Dermatitis, Asthma, Emphysema and Bronchitis

**CARCINOGENICITY:** There are no ingredient raw materials at 0.1 % or greater listed as potential carcinogens by OSHA, IARC, ACGIH or NTP

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## SECTION 4: FIRST AID MEASURES

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**EYES:** FLUSH MATERIAL OUT IMMEDIATELY, AND THEN GET MEDICAL ATTENTION. Flush IMMEDIATELY with water while holding eyelids apart. It is very important to wash the material out within several seconds to achieve maximum effectiveness. GET MEDICAL ATTENTION IMMEDIATELY AFTER FLUSHING. If physician is not immediately available, flush eyes gently with water for at least 15 minutes or until you can obtain medical attention.

**SKIN:** Remove contaminated clothing, start flushing exposed area with water while removing the contaminated clothing and continue after clothing is removed. If skin is damaged, seek immediate medical attention. Wash soiled clothing and footwear before reuse. If symptoms persist or develop, seek medical attention.

**INGESTION:** Vomiting will cause further damage to the throat, do not induce vomiting. Give the individual several glasses of water or milk. If vomiting does occur, have the individual lean forward with head down to avoid breathing in vomit, rinse mouth and administer more water. IMMEDIATELY contact the local poison control center. IMMEDIATELY get the individual to the nearest Emergency facility. DO NOT give anything by mouth if the individual is losing consciousness, or is unconscious or convulsing.

**INHALATION:** If symptoms develop, immediately move individual away from the exposure and into fresh air. SEEK IMMEDIATE MEDICAL ATTENTION; keep individual warm, if person is not breathing, begin artificial respiration. If individual is having difficulty breathing, Administer oxygen (if available).

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## SECTION 5: FIRE-FIGHTING MEASURES

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**FLASH POINT:** None

**METHOD USED:** None

**AUTOIGNITION TEMPERATURE:** Not applicable

**EXTINGUISHING MEDIA:** Nonflammable/Noncombustible. Use agents appropriate for surrounding fire.

**SPECIAL FIRE FIGHTING PROCEDURES:** Self-contained breathing apparatus (NIOSH/MSHA Pressure-demand) should be provided for fire fighters in confined spaces or buildings where this product is stored.

**UNUSUAL FIRE AND EXPLOSION HAZARDS:** Due to high buildup of pressure and weakening of the container structure when exposed to extreme heat, containers may rupture. The product will give off toxic corrosive fumes of HCl at high temperatures. Will react with most metals to produce hydrogen gas which can form explosive mixtures in air.

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## SECTION 6: ACCIDENTAL RELEASE MEASURES

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**ACCIDENTAL RELEASE MEASURES:** Only qualified personnel who have read the product bulletins and this MSDS should conduct the following procedures. Persons not wearing protective equipment should be excluded from the area. Cordon off area if necessary to prevent unauthorized traffic or entry. Approach the spill from upwind. Stop or control leak, promptly dike to prevent spreading and stop the spill at the source. Control the runoff and isolate discharged material for proper disposal (place in labeled waste container for neutralization and disposal). If unable to prevent release to soil or waters of the state, immediate notice to local regulatory authorities is required.

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## SECTION 7: HANDLING AND STORAGE

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**HANDLING AND STORAGE:** Follow personal protection procedures (Section 8) when handling the product. Product must be stored upright in a cool, dry, well ventilated area, in tightly closed containers away from combustible materials and sources of heat. Metal containers or equipment should not be used. Isolate from other chemicals and materials to avoid chemical incompatibility. Labels must not be removed from containers. Protect from physical damage. Re-seal partially used containers. Wash with soap and water before eating, drinking, smoking, or using toilet facilities. Observe conditions of good industrial hygiene and safe working practices.

**OTHER PRECAUTIONS:** Addition to water release heat which can result in violent foaming and spattering. Always add slowly and in small amounts. Always add acids to water, never add water to acids. Empty containers of this material may be hazardous. Since emptied containers retain product residues (vapors, liquids, and/or Solids), all hazard precautions given in the data sheet must be observed. Check your local codes for disposal of empty containers.

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## SECTION 8: EXPOSURE CONTROL/PERSONAL PROTECTION

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**VENTILATION/ENGINEERING CONTROLS:** Provide adequate ventilation and sufficient local exhaust as necessary to maintain exposure below TWA and TLV limits.

**RESPIRATORY PROTECTION:** Use approved acid/gas cartridge or canister with full face piece unless break through occurs then use airline supplied or self contained breathing apparatus. Preferred respirator is the P100/Hydrogen Chloride respirator which is NIOSH TC-84A approved. For respirator protection guidelines refer to OSHA 29 CFR 1910.134.

**EYE PROTECTION:** Wear chemical splash goggles.

**SKIN PROTECTION:** Wear rubber or neoprene chemical-resistant impervious gloves.

**OTHER PROTECTIVE CLOTHING OR EQUIPMENT:** Wear suitable protective clothing, chemical-resistant apron and footwear to avoid skin contact. Make sure emergency eyewash and washing facilities are available nearby.

**WORK HYGIENIC PRACTICES:** Wash with soap and water before eating, drinking, smoking, or using toilet facilities. Observe conditions of good industrial hygiene and safe working practices.

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## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

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**APPEARANCE:** Dark liquid

**ODOR:** Chlorine Pungent odor

**PHYSICAL STATE:** Liquid

**pH AS SUPPLIED:** <3.0

**BOILING POINT:** Not determined

**MELTING POINT:** Not applicable

**FREEZING POINT:** Not applicable

**VAPOR PRESSURE (mmHg):** Not determined

**VAPOR DENSITY (AIR = 1):** Not determined

**SPECIFIC GRAVITY (H<sub>2</sub>O = 1):** 1.28

**EVAPORATION RATE: (BUTYL ACETATE=1)** Slower

**PERCENT VOLATILE (BY WT):** <75

**VOLATILE ORGANIC COMPOUNDS (VOC):** Nil

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## SECTION 10: STABILITY AND REACTIVITY

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**STABILITY:** Stable

**CONDITIONS TO AVOID (STABILITY):** Excessive heat

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## SECTION 10: STABILITY AND REACTIVITY (continued)

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**INCOMPATIBILITY (MATERIAL TO AVOID):** Metals, alkaline earth metals, alkali, alkalis, reducing agents, organic and oxidizable materials.

**HAZARDOUS DECOMPOSITION OR BY-PRODUCTS:** Hydrogen may be formed in contact with certain metals. May evolve highly toxic chloride and chlorine fumes.

**HAZARDOUS POLYMERIZATION:** Will not occur

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## SECTION 11: TOXICOLOGICAL INFORMATION

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**TOXICOLOGICAL INFORMATION:** There are no ingredient raw materials at 0.1 % or greater listed as potential carcinogens by OSHA, IARC, ACGIH or NTP

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## SECTION 12: ECOLOGICAL INFORMATION

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**ECOLOGICAL INFORMATION:** LC50 aquatic toxicity rating has not been determined. It is reasonable to assume that sufficient quantities will affect aquatic life, even though there is no toxicity data available. Precaution should be taken to prevent the release of this product into the environment.

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## SECTION 13: DISPOSAL CONSIDERATIONS

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**WASTE DISPOSAL METHOD:** Review Section 8 for information regarding correct personal protection procedures. Rinse or wash equipment in baking soda solution to neutralize pH (acidity). Even though materials have been pH neutralized it may still contain components listed in this MSDS Section 2 which are hazardous. Dispose of waste in accordance with federal, state and local regulations.

Kemistain cannot make recommendation for disposal in any specific location and the user is cautioned to be thoroughly familiar with all applicable requirements before use.

To find hazardous waste disposal companies in your local area, search the Internet using "Hazardous Waste Disposal" as the key search words.

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## SECTION 14: TRANSPORT INFORMATION

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### U.S. DEPARTMENT OF TRANSPORTATION:

**PROPER SHIPPING NAME:** Hydrochloric Acid Solution

**HAZARD CLASS:** 8 - Corrosive

**ID NUMBER:** UN1789

**LABEL STATEMENT:** Corrosive

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## SECTION 15: REGULATORY INFORMATION

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### U.S. FEDERAL REGULATIONS:

This product contains a toxic chemical subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR 372.

OSHA Standard 19 CFR 1910.1200 requires that information be provided to employees regarding the hazards of chemicals by means of a hazard communications program which includes labeling, material safety data sheets (MSDS), training, and access to written records. It is your legal duty to make all information in this Material Safety Data sheet available to your employees.

Resource conservation and Recovery Act: Test waste material for corrosivity, D002, before disposing of.

### STATE REGULATIONS:

State of California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): Warning: This product contains a chemical known to the State of California to cause cancer, or birth defects or other reproductive harm. For all state regulations, please check with the appropriate state agency.

**INTERNATIONAL REGULATIONS:** Consult the regulation of the importing country.

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## SECTION 16: OTHER INFORMATION

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**OTHER INFORMATION:** Before using this product, completely read all documentation relating to Kemistain Classic Etch™ Rustic Red Decorative Concrete Acid Stain to include the container label.

**DISCLAIMER:** THE INFORMATION IN THIS MSDS WAS OBTAINED FROM SOURCES WHICH WE BELIEVE ARE RELIABLE, HOWEVER THE INFORMATION IS PROVIDED WITHOUT ANY WARRANTY, EXPRESS OR IMPLIED, REGARDING ITS CORRECTNESS. THE CONDITIONS OR METHODS OF HANDLING, STORAGE, USE AND DISPOSAL OF THE PRODUCT ARE BEYOND OUR CONTROL AND MAY BE BEYOND OUR KNOWLEDGE. FOR THIS AND OTHER REASONS, WE DO NOT ASSUME RESPONSIBILITY AND EXPRESSLY DISCLAIM LIABILITY FOR LOSS, DAMAGE, OR EXPENSE ARISING OUT OF OR IN ANY WAY CONNECTED WITH THE HANDLING, STORAGE, USE OR DISPOSAL OF THE PRODUCT.

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